

ABSTRACT

The invention provides an adhesive-carrying porous film for use as a battery separator, comprising: a substrate porous film, wherein when a 1 mm diameter penetrating thermomechanical analyzer probe is placed on the film under a 70g load to measure a thickness while heating the film from room temperature at a rate of 2°C/minute to a temperature where the film thickness decreases by half when the probe was initially placed is 200°C or more, a partially crosslinked adhesive carried on the film, the adhesive is prepared by reacting a reactive polymer having a functional group capable of reacting with an isocyanate group with a polyfunctional isocyanate so the reactive polymer is partially crosslinked, a porous film is temporarily bonded to an electrode to provide an electrode/separator laminate, the porous film in a battery functions as a separator which does not melt or break with small heat shrinkage under high temperatures.